

Libby Asbestos Site Conceptual Site Model Operable Unit 4

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Libby, Montana



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Roadmap

- Superfund Programs
- Superfund Remedial Process
- Baseline Risk Assessment
- Conceptual Site Model

Superfund Programs

Removal Actions

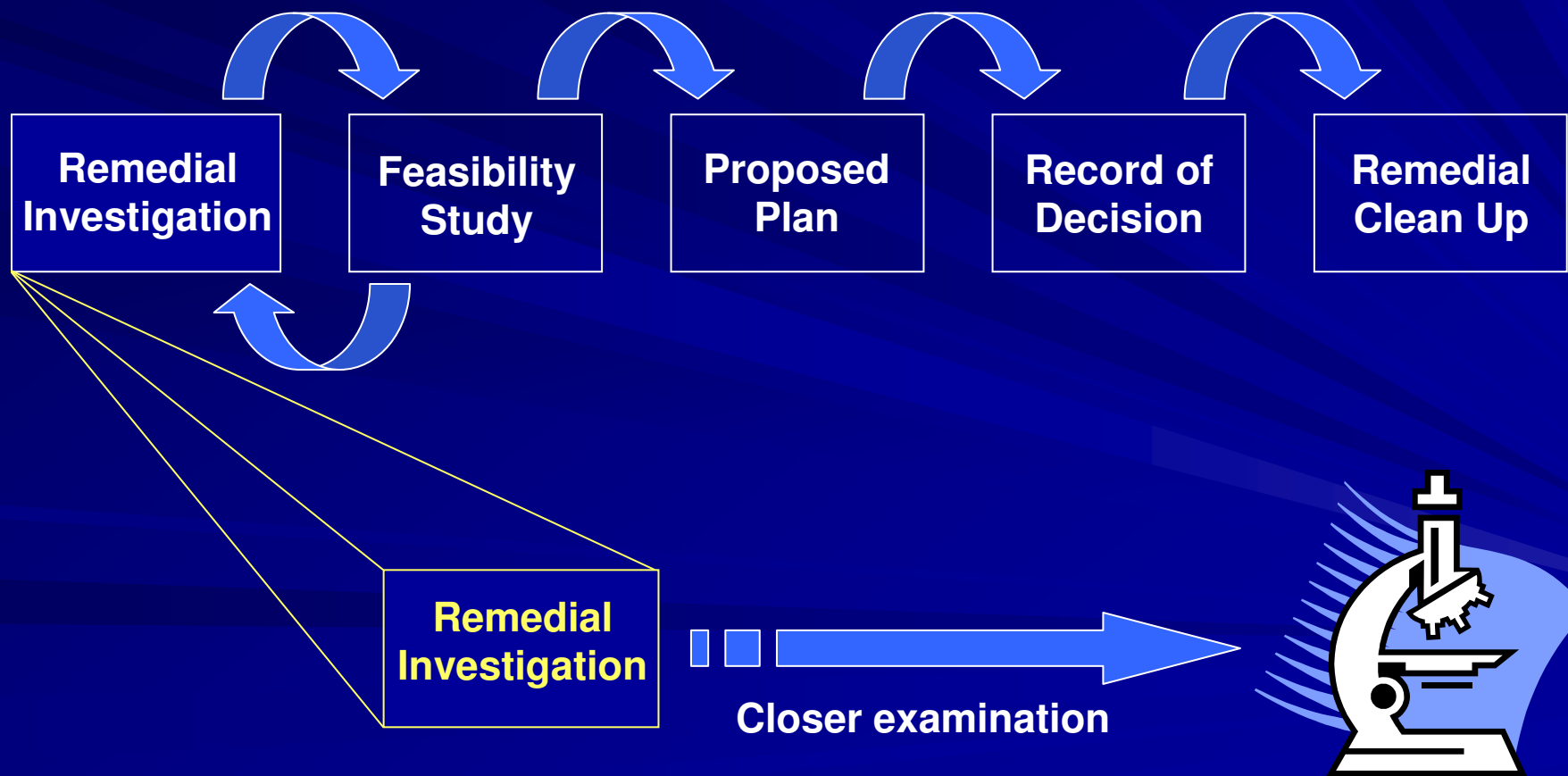


Remedial Actions

- Emergency cleanups
- Immediate response
- Protection from immediate threats
- NPL or non-NPL sites
- Non-emergency cleanups
- Minimize release of hazardous substances
- Reduce public health risks at NPL sites

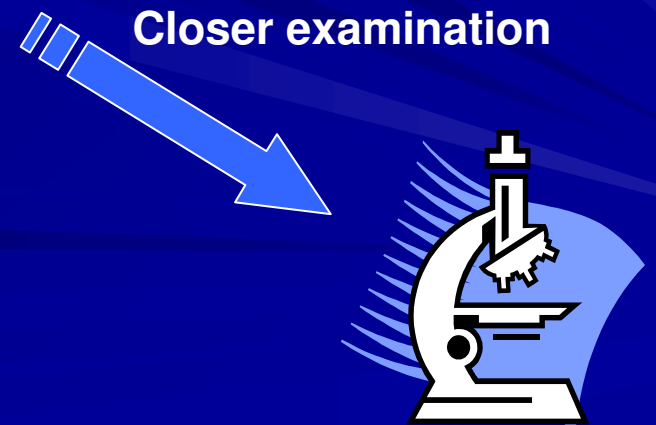
The Superfund Remedial Process

Long-term Protective Actions



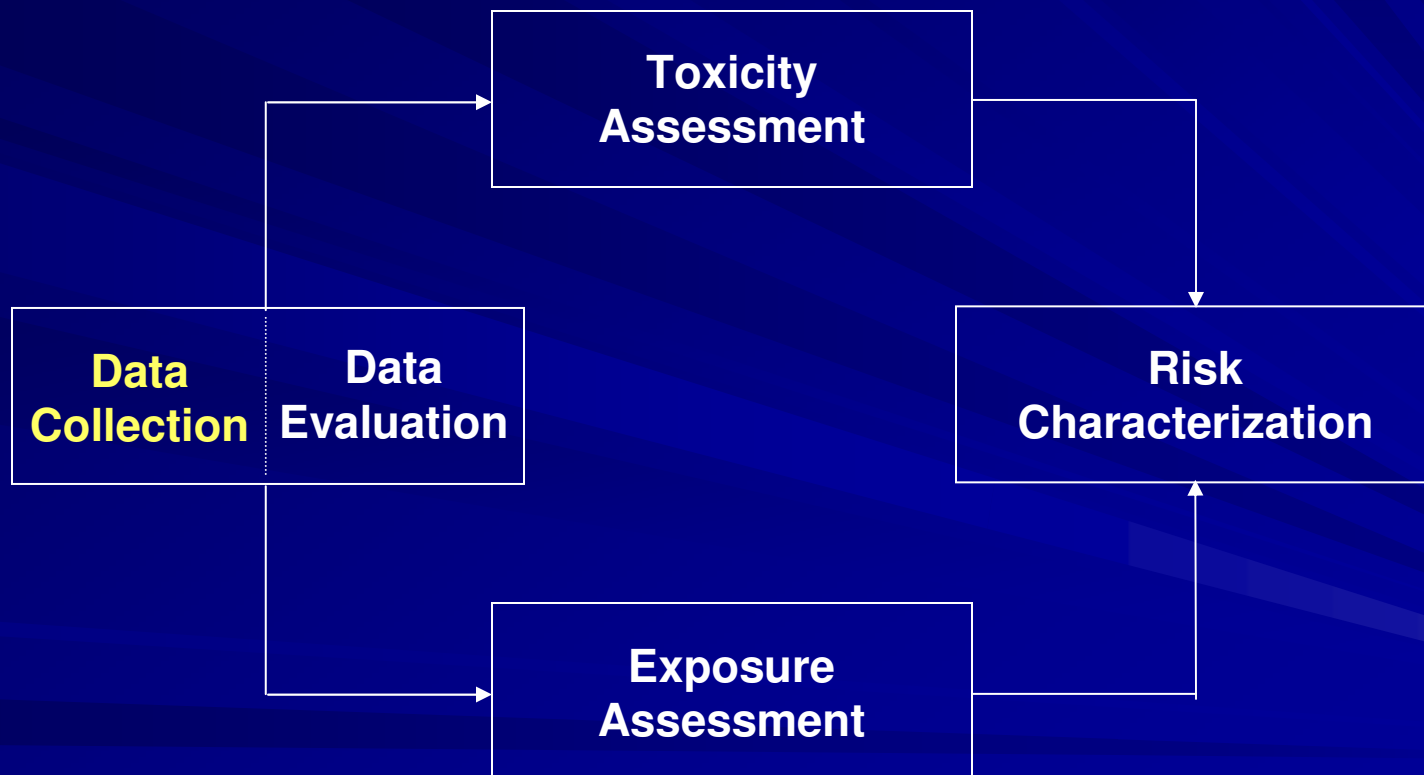
Remedial Investigation

- Serves as mechanism for collecting data to:
 - Characterize nature and extent of contamination
 - Assess risk to human health & the environment (Baseline Risk Assessment)
 - Support the Feasibility Study



Baseline Risk Assessment

Human Health



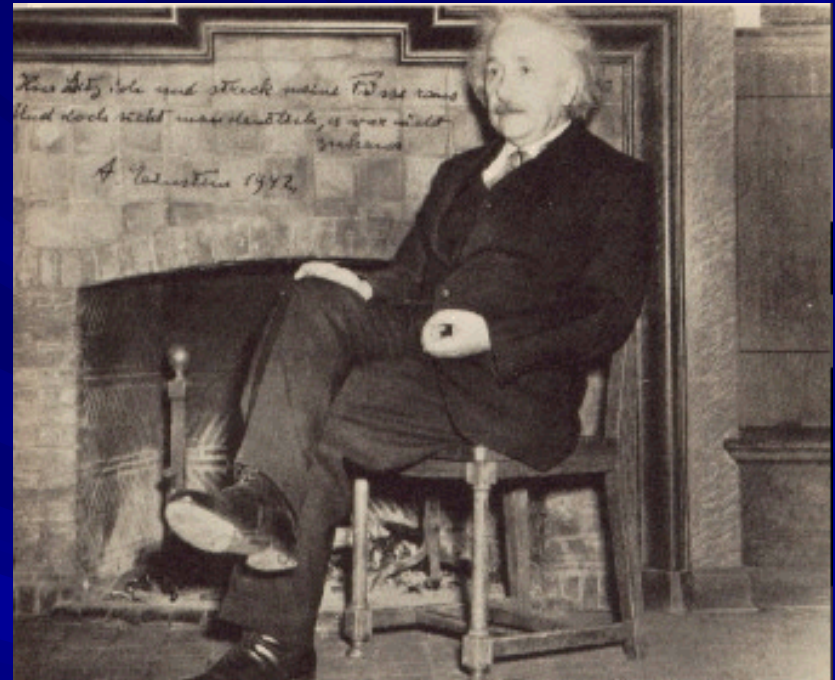
Baseline Risk Assessment

Human Health

- Identifies major health threats at the Site
- Identifies existing or potential human health risks at the Site
- Helps with the development and evaluation of remedial approaches for the Feasibility Study

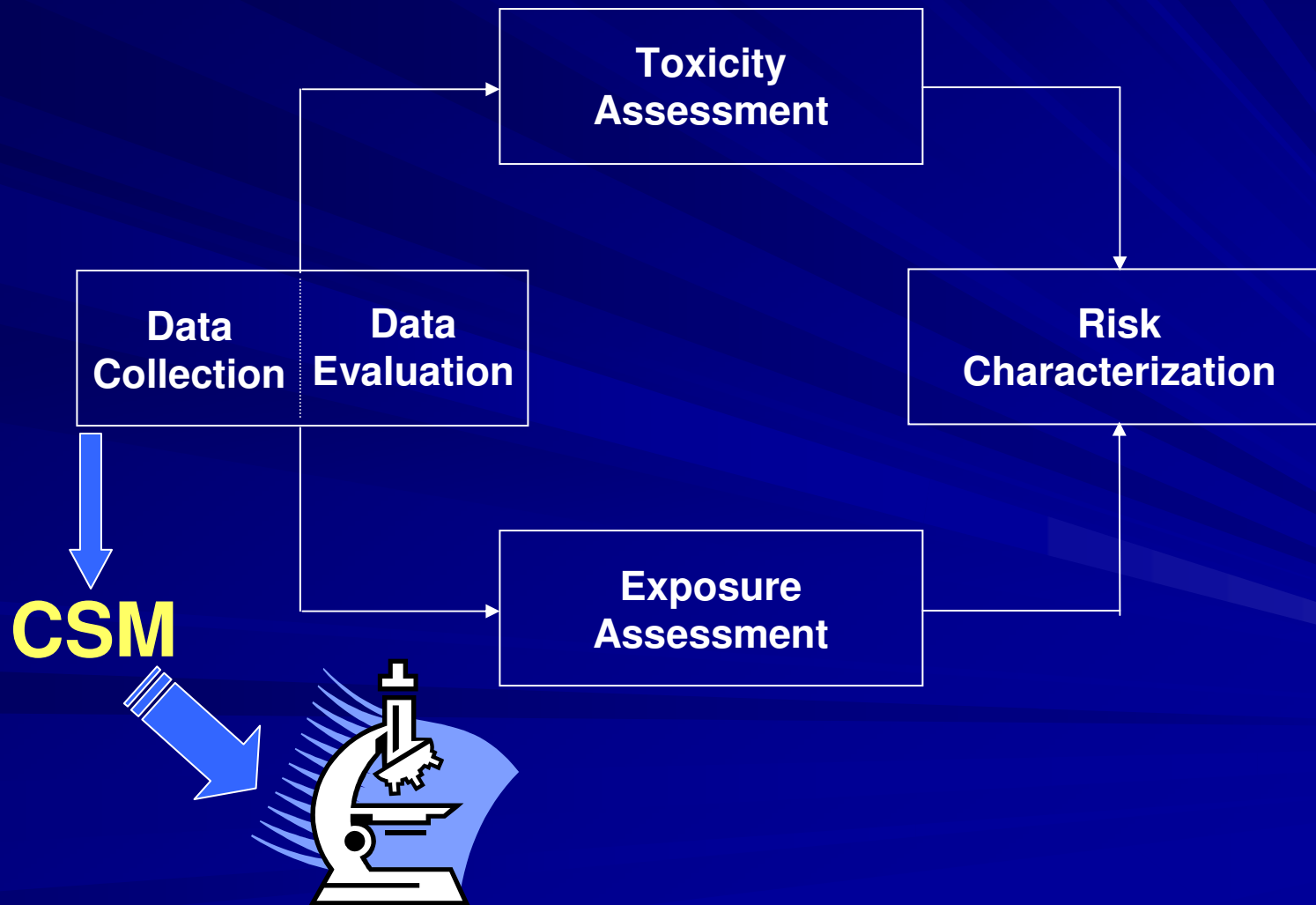
*“The formulation of a
problem is often
more essential
than its solution”*

Albert Einstein



Baseline Risk Assessment

Conceptual Site Model (CSM)



Purpose of Conceptual Site Model

- Identifies sources of environmental contamination
- Shows how contaminant at the original point of release might move in the environment
- Identifies the different categories of people that might come in contact with contaminated media
- Lists potential exposure pathways that may occur for each category

Operable Unit 4

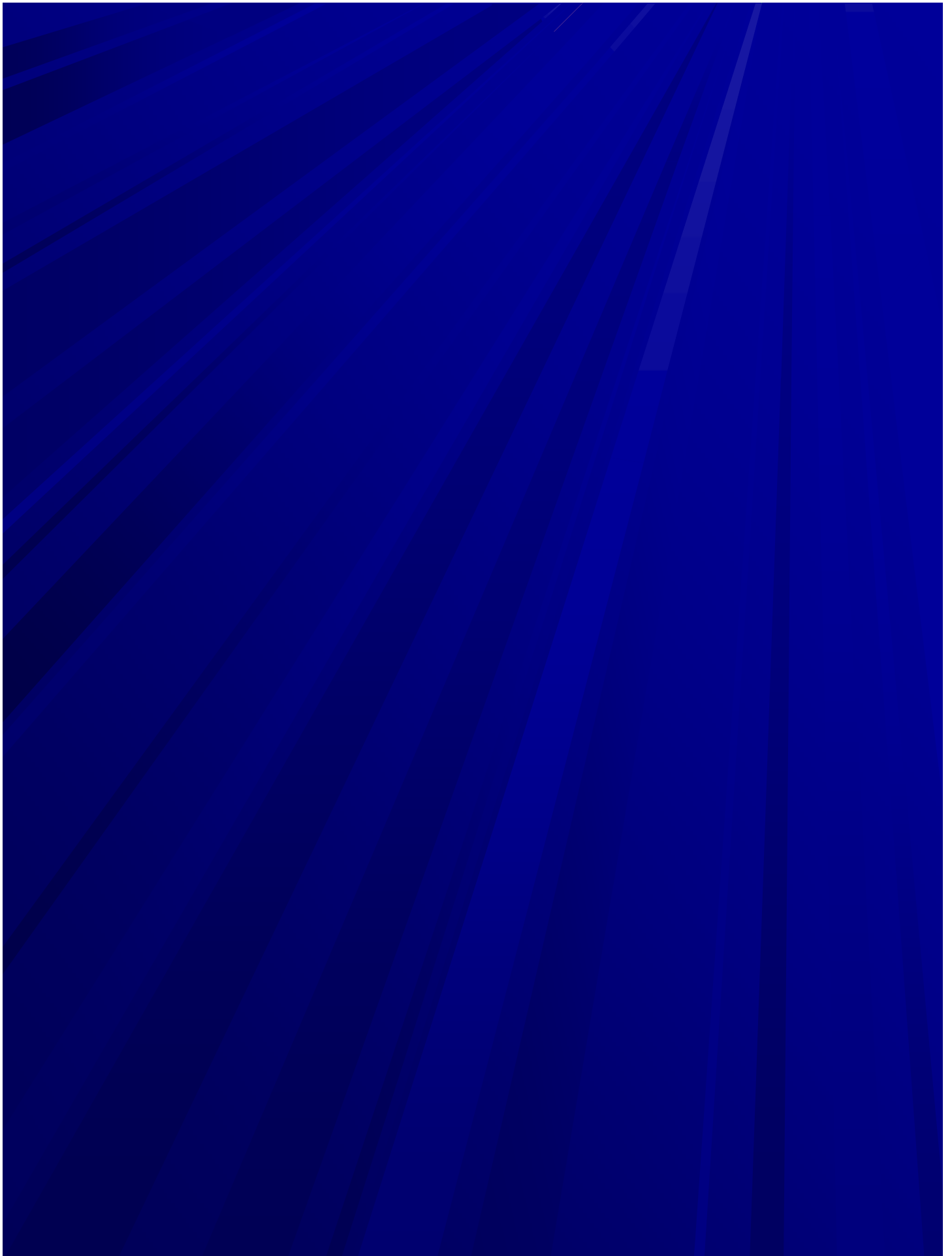
- Large and complex sites can be divided into “Operable Units” (OUs) to phase the cleanup and/or expedite early action
- Libby Site divided into multiple OUs
- OU4 is defined as residential, commercial, industrial, and public properties, including schools and parks, within the defined boundary

OU4 Conceptual Site Model

- Sources of contamination
- Environmental transport and contaminated media
- Receptors
- Potential exposure pathways
 - Reasonable and plausible

OU4 CSM Pathway

The CSM serves as a blueprint for future investigations and may be updated as new information becomes available.



Questions?

